

DH-IPC-HDBW3849R1-ZAS-PV

8MP Smart Dual Illumination Active Deterrence Vari-focal Dome WizSense Network Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Dahua WizSense 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

Siren And Light Active Deterrence

Dahua siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

Smart Dual Illuminators

Dahua Smart Dual Illuminators technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the warm light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the warm light is off and the IR illuminator is on, which reduces light pollution efficiently.

SMD

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

One-tap Disarming

Dahua One-tap Disarming function, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage through mobile App, which meets multi-scenarios needs.

- 8-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED; the max. IR illumination distance is 50 m and warm light distance is 40 m.
- ROI, SMART H.264+/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two function support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; buit-in dual MICs; 1-ch speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67, IK10 protection.
- Sound and light alarm (red and blue lights).
- SMD 3.0.
- One-click arming/disarming through alarm input.



Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Protection (IP67, IK10, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification								Main stream: 3840 × 2160@(1 fps–30 fps) Sub stream: 704 × 576@(1 fps–25 fps)/704 × 480@(1 fps–30 fps)
Camera								
Image Sensor		1/2.8" CMOS					Video Frame Rate	Third stream:1920 × 1080@(1 fps–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity
Max. Resolution		3840 (H) × 2160 (V)						
ROM		128 MB					Stream Capability	3 streams
RAM		1 GB					Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumination		0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)					Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
S/N Ratio		>56 dB					Day/Night	Auto (ICR)/Color/B/W
Illumination	Distance	50 m (164.04 ft) (IR) 40 m (131.23 ft) (warm light)					BLC	Yes
Illuminator C	n/Off Control						HLC	Yes
Illuminator Number		2 (IR LED)					WDR	120 dB
indiminator Number		2 (warm light)					Scene Self-adaptation	Yes
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens							Gain Control	Auto; manual
Lens Type		Motorized vari-focal					Noise Reduction	3D NR
Mount Type		ф16					Motion Detection	OFF/ON (4 areas)
Focal Length		2.7 mm–13.5 mm					Region of Interest (RoI)	Yes (4 areas)
Max. Aperture		F1.0					Image Stabilization	Electronic Image Stabilization (EIS)
Field of View		Horizontal: 108°–34° Vertical: 56°–19° Disconst. 120°–20°					Smart Illumination	Yes
Iris Type		Diagonal: 130°–39° Fixed					Defog	Yes
Close Focus Distance		1.5 m (4.92 ft)					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
	Lens	Detect	Observe	Recognize	Identify		Mirror	Yes
DORI	W	89.9 m	36.0 m	18.0 m	19.0 m		Privacy Masking	4 areas
Distance		(294.95 ft) 257.4 m	(118.11 ft) 103.0 m	(59.06 ft) 51.5 m	(62.34 ft) 25.7 m		Alarm	
T Professional, intellige		(844.49 ft) (337.93 ft) (168.96 ft)			(84.32 ft)		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene
	, 0	Tripwire; intrusion (support the classification and						changing; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception
IVS (Perimeter Protection)		accurate detection of vehicle and human)					Network	
SMD 3.0		Less false alarm, longer detection distance Work together with Smart NVR to perform refine					Network	RJ-45 (10/100 Base-T)
Intelligent Search		intelligent search, event extraction and merging to event videos					SDK and API	Yes Video encryption; firmware encryption; configuration
Video							Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)						certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Smart Codec		Smart H.265+; Smart H.264+					Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
AI Coding		AI H.265; AI H.264						. , , , ,

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Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone				
User/Host	20 (Total bandwidth: 72 M)				
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS				
Browser	IE: IE8/9/11 Chrome Firefox				
Management Software	Smart PSS; DSS; DMSS				
Mobile Phone	iOS; Android				
Certification					
Certification	CE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14				
Port					
Audio Input	1 channel (RCA port)				
Audio Output	1 channel (RCA port)				
Alarm Input	1 channel in: 5 mA 3V–5 VDC				
Alarm Output	1 channel out: 300 mA 12 VDC				
Power					
Power Supply	12V DC/PoE (802.3af)				
Power Consumption	Basic: 4.4 W (12 VDC); 5.8 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 7.9 W (12 VDC); 10.1 W (PoE)				
Environment					
Operating Conditions	–30 °C to +60 °C (–22 °F to +140 °F)/Less than 95% RH				
Storage Conditions	-40 °C to +60 °C (-40 °F to +140 °F)				
Protection Grade	IP67, IK10				
Structure					
Casing	Metal				
Dimensions	105 mm × Φ126.0 mm (4.13" × Φ4.96")				
Net Weight	0.73 kg (1.61 lb)				
Gross Weight	0.9 kg (1.98 lb)				

Ordering Information						
Туре	Model	Description				
8MP	DH-IPC-HDBW3849R1- ZAS-PV	8MP Smart Dual Illumination Active Deterrence Vari-focal Dome WizSense Network Camera				
Camera	IPC-HDBW3849R1-ZAS-PV	8MP Smart Dual Illumination Active Deterrence Vari-focal Dome WizSense Network Camera				
	PFA197R	Junction Box				
	PFB206W	Wall Mount				
	PFA156	Pole Mount				
Accessories	PFA109	Ceiling Mount Bracket				
(Optional)	PFB220C	Ceiling Mount Bracket				
	PFM321D	12 VDC 1A Power Adapter				
	РҒМ900-Е	Integrated Mount Tester				
	TF-P100	TLC SD Card				

Accessories

Optional:







PFA197R Junction Box

PFB206W Wall Mount

PFA156 Pole Mount





PFA109 Ceiling Mount Bracket



PFM900-E Integrated Mount Tester

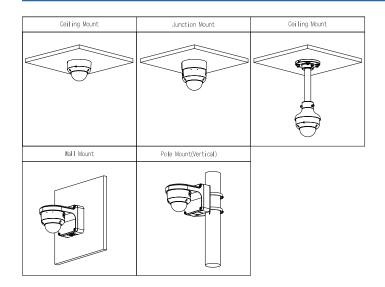
256GB ⊎ 42 ₩2 180

TF-P100 TLC SD Card

PFB220C

Ceiling Mount Bracket

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Dimensions (mm[inch])

